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January 7, 1999

Mr. Robert Haslam
Assistant Hazardous Materials Specialist
Sites Management Section
Vermont Department of Environmental Conservation
103 South Main Street
Waterbury, VT 05676

RE: Parker's Service Station, Middletown Springs (Site # 91-1170) - Parker's Well Water Quality and SMAC Request

Dear Mr. Haslam:

While reviewing project files for 1999 scheduling, I found the March 16, 1998 water quality laboratory report for a water sample collected on March 4, 1998 from the Parker's well. Apparently the results were not reported to you earlier. I apologize for this oversight and am reporting them now and formally requesting a Site Management Activity Completed (SMAC) designation for the Parker's Service Station site.

Lincoln Applied Geology, Inc. (LAG) collected a water sample from the Parker's well at the bathroom sink tap location on March 4, 1998. The laboratory report is included as Appendix A, and the historical water quality results and trends are summarized in Table 1 and shown in Charts 1 (BTEX) and 2 (MTBE). The March 4, 1998 water quality results indicate that there were no BTEX and MTBE contaminants detected, which is the same as the March and December 1997 analytical results. The "non-potable water" sign above the Parker's bathroom sink currently remains in place. Based on the cumulative historical monitoring results we continue to believe that this site poses little to no risk from any low levels of residual subsurface contamination.

As stated in your April 18, 1996 letter, annual monitoring of the Parker's well will continue until the site qualifies for a SMAC designation. Review of the historical data associated with this site indicates that a SMAC designation is warranted since:

- the source has been adequately defined as it relates to the ground water contamination;
- 2. the majority of the subsurface contamination appears to have been naturally remediated through volatilization, dilution, and biodegradation, and natural attenuation;
- 3. BTEX and MTBE ground water concentrations in the Parker's well have

Mr. Robert Haslam Page 2 January 7, 1999

been non-detect since March 19, 1997. Low BTEX and MTBE levels in monitor wells MW-3 and MW-4 near the southeast corner of the property had declined from their peak levels in 1994 when their sampling ceased after March 6, 1996;

- 4. ground water quality enforcement standards for BTEX and MTBE are probably not exceeded at the site boundary line. Water quality samples collected from 6 nearby water supply wells since June 16, 1993 have never shown the presence of BTEX and MTBE contaminants; and
- 5. no unacceptable threat to human health or the environment exists.

Please refer to the historical summary of ground water quality data included as **Table 1**. When the site is granted a SMAC designation, we will properly abandon ground water monitor wells MW-1, 2, 3, and 4. At your request, LAG will prepare a cost estimate to perform the well abandonment.

If you have any questions or comments regarding this letter and our request for a SMAC, please call me at 453-4384.

Sincerely,

Lincoln Applied Geology, Inc.

William D. Norland Hydrogeologist

WDN/wdn

Enclosures

cc: Norman Parker

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Ground Water Quality Results (ppb)

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Data Point	Com	cound	1-13-9	2	2-5-93	3	6-16-	93	9-2	2-93	12-22	2-93	3-23-	94	6-7	-94	10-3	-94	12-28-	94	3-29	_	9-20-	95	3-6-	96	3-19-97	1	2-16-97	3-4	-98
		MTBE					1	64		<10		<1				<1		<1		<5		<5		<5		< 5					
MW-1	BTEX						<4		<4		<6			.	<6		<6		<6		<6		8.9		<6	. ,		_			
		MTBE		·			1	135		<10		<1		1		2		<1	1	<5		<5		<5		<5		-			
MW-2	BTEX					1	<4		<4		<6		<6		<6		<6		<6		<6		<6		<6		<u></u>				
		MTBE					6	0.2		51.5		26		13		36		62		39		10		36		22					
MW-3	BTEX		•				10.2		<4		18		14		9		41		34		10		22.4		19.4						
		MTBE					4	2.2		26.9		74		55		21		55		32		30		<5		18					
MW-4	BTEX						<4		<4		34	į	42		6		33		26		26		7.5		25						
		MTBE																				<5				<5		1			
TW-1	BTEX																				\$				<6						
	1	MTBE		89		99	1	9.3		<10		8		<20		9		16		5		<5		<5		22	<	5	<5		<5
Parker Well	BTEX		283.3		600.8		95.6		56.4		40		1700		<6		423		11		83		123.2		19.5		<6	<	5	<6	
		MTBE		<1		<5		< 5		<10		<1	į	<1		<1		<1		<5		<5		<5		<5					
Teer Well	BTEX		<9		<7.8		<4		<4		<6		<6		<6		<6		<6		<6		<6		<6						
US Post		MTBE		<1		<5		<5		<10		<1		<1		<1		<1		<5		<5		<5		<5					
Office Well	BTEX		<9		<4		<4		<4		<6		<6		<6		<6		<6		<6		<6		<6						
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Appendix A

Parker's Well Laboratory Report for March 4, 1998

GREEN MOUNTAIN LABORATORIES, INC.

RR 3, BOX 5210 Montpelier, Vermont 05602

Phone (802) 223 - 1468

Fax (802) 223 - 8688

LABORATORY RESULTS

CLIENT NAME:	Lincoln Applied Geology	REFERENCE NO:	3454
ADDRESS:	RD 1 Box 710	PROJECT NO:	NA
	Bristol, VT 05443	DATE OF SAMPLE:	03/04/98
SAMPLE LOCATION:	Parkers Garage	DATE OF RECEIPT:	03/05/98
SAMPLER:	Jake Peirce	DATE OF ANALYSIS:	03/15/98
ATTENTION:	Bill Norland	DATE OF REPORT:	03/16/98

Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- The Trip Blank was prepared by the client with reagent grade water supplied by the laboratory.
- Water samples submitted for VOC analysis were preserved with HCl.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing Calibration standards were monitored at intervals indicated in the specified method. The resulting analytical precision and accuracy were determined to be within method QA/QC acceptance limits.
- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analyte to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:

Raul Sanchez
Chemical Services

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GREEN MOUNTAIN LABORATORIES, INC.

Montpelier, Vermont 05602

Phone (802) 223 - 1468

Fax (802) 223 - 8688

LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

GML REF. # : STATION:

3454

TRIP BLANK

ANALYSIS DATE: 03/15/98

DATE SAMPLED: 03/04/98

SAMPLE TYPE:

WATER

PARAMETER	PQL (µg/L)	Conc. (μg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
мтве	5	ND
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Surrogate % Recovery:

81.6 %

ND = Not Detected BPQL = Below Practical Quantitation Limits

GREEN MOUNTAIN LABORATORIES, INC.

Montpelier, Vermont 05602

Phone (802) 223 - 1468

Fax (802) 223 - 8688

LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

GML REF.#:

3454

STATION:

BATHROOM SINK TAP

ANALYSIS DATE: DATE SAMPLED:

03/15/98

DATE SAMPLED.

03/04/98

SAMPLE TYPE:

WATER

PARAMETER	PQL (μg/L)	Conc. (μg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
мтве	5	ND
		1

Surrogate % Recovery:

82.3 %

ND = Not Detected
BPOL = Below Practical Quantitation Limits

Green Mountain Laboratories, Inc. RR #3, Box 5210 Montpelier, VT 05602 Phone (802) 223-1468 Fax (802) 223-8688 E-mail: GML@together.net Name Lincolm Of Cont. St Number A St Number A St Number St Number A St Number A St Number A St Number A St Number A St Number A St Number A St Number A St Number A St Number A St Number <t< th=""><th>223-8688 223-8688 et f f Pres.</th><th>Sample Type</th><th>1319+391W ×</th><th></th><th></th><th>!</th><th>Page of {</th><th>e[.]</th></t<>	223-8688 223-8688 et f f Pres.	Sample Type	1319+391W ×			!	Page of {	e [.]
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